

Exploring the Extreme			
2004 Science			
Curriculum Frameworks			
Connecticut Science			
Grades PK-2			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	CT	SCI.PK-2.A INQ.1	Make observations and ask questions about objects, organisms and the environment.
Finding the Center of Gravity Using Rulers	CT	SCI.PK-2.A INQ.2	Use senses and simple measuring tools to collect data.
Finding the Center of Gravity Using Rulers	CT	SCI.PK-2.A INQ.3	Make predictions based on observed patterns.
Finding the Center of Gravity Using Rulers	CT	SCI.PK-2.A INQ.8	Use nonstandard measures to estimate and compare the sizes of objects.
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2004 Science			
Curriculum Frameworks			
Connecticut Science			
Grade 1			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	CT	SCI.1.	An object's position can be described by locating it relative to another object or the background.
Finding the Center of Gravity Using Rulers	CT	SCI.1.A.1.1.A 10	Describe how the motion of objects can be changed by pushing and pulling.
Finding the Center of Gravity Using Plumb Lines	CT	SCI.1.	An object's position can be described by locating it relative to another object or the background.
Finding the Center of Gravity Using Plumb Lines	CT	SCI.1.A.1.1.A 10	Describe how the motion of objects can be changed by pushing and pulling.
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Grades 3-5			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	CT	SCI.3-5.B INQ.3	Design and conduct simple investigations.
Finding the Center of Gravity Using Rulers	CT	SCI.3-5.B INQ.6	Analyze, critique and communicate investigations using words, graphs and drawings.

Finding the Center of Gravity Using Plumb Lines	CT	SCI.3-5.B INQ.3	Design and conduct simple investigations.
Finding the Center of Gravity Using Plumb Lines	CT	SCI.3-5.B INQ.6	Analyze, critique and communicate investigations using words, graphs and drawings.
Changing the Center of Gravity Using Moment Arms	CT	SCI.3-5.B INQ.3	Design and conduct simple investigations.
Changing the Center of Gravity Using Moment Arms	CT	SCI.3-5.B INQ.6	Analyze, critique and communicate investigations using words, graphs and drawings.
Jet Propulsion	CT	SCI.3-5.B INQ.5	Use data to construct reasonable explanations.
Jet Propulsion	CT	SCI.3-5.B INQ.6	Analyze, critique and communicate investigations using words, graphs and drawings.
Vectoring	CT	SCI.3-5.B INQ.1	Make observations and ask questions about objects, organisms and the environment.
Vectoring	CT	SCI.3-5.B INQ.5	Use data to construct reasonable explanations.
Vectoring	CT	SCI.3-5.B INQ.6	Analyze, critique and communicate investigations using words, graphs and drawings.
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Grade 4			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	CT	SCI.4.	The size of the change in an object's motion is related to the strength of the push or pull.
Finding the Center of Gravity Using Plumb Lines	CT	SCI.4.	The size of the change in an object's motion is related to the strength of the push or pull.
Changing the Center of Gravity Using Moment Arms	CT	SCI.4.	The size of the change in an object's motion is related to the strength of the push or pull.
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Grades 6-8			
Activity/Lesson	State	Standards	
Jet Propulsion	CT	SCI.6-8.	Scientific inquiry progresses through a continuous process of questioning, data collection, analysis and interpretation.

Jet Propulsion	CT	SCI.6-8.C INQ.4	Identify independent and dependent variables, and those variables that are kept constant, when designing an experiment.
Jet Propulsion	CT	SCI.6-8.C INQ.5	Use appropriate tools and techniques to make observations and gather data.
Vectoring	CT	SCI.6-8.	Scientific inquiry progresses through a continuous process of questioning, data collection, analysis and interpretation.
Vectoring	CT	SCI.6-8.C INQ.1	Identify questions that can be answered through scientific investigation.
Vectoring	CT	SCI.6-8.C INQ.4	Identify independent and dependent variables, and those variables that are kept constant, when designing an experiment.
Vectoring	CT	SCI.6-8.C INQ.5	Use appropriate tools and techniques to make observations and gather data.
Vectoring	CT	SCI.6-8.C INQ.9	Provide explanations to investigated problems or questions.
Fuel Efficiency	CT	SCI.6-8.C INQ.7	Identify and present relationships between variables in appropriate graphs.
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Grade 8			
Activity/Lesson	State	Standards	
Jet Propulsion	CT	SCI.8.	The motion of an object can be described by its position, direction of motion and speed.
Vectoring	CT	SCI.8.	The motion of an object can be described by its position, direction of motion and speed.
Center of Gravity, Pitch, Yaw	CT	SCI.8.	The motion of an object can be described by its position, direction of motion and speed.